Part II, Item C. – Maps

Due to the nature of the MS4 (University), many of the items listed in this section are not included on the maps because they do not apply. The following Item C features are not included on the maps:

- Zoned areas for commercial or industrial activity Not applicable for a university.
- Actual areas of commercial or industrial activity Not applicable for a university
- Other municipally owned/operated industrial activities None for APSU
- Municipal or County Wastewater Treatment Plants None
- Power Plants None
- Airports None
- Military Installations None
- County Roads APSU's MS4 area is surrounded by the City of Clarksville; therefore, county roads are not applicable.
- Landfills None

Additional Proposed BMPs

2. Prop	2. Proposed BMPs for IDDE		
BMP	Name	Description	
2E.	Staff training on	Train staff on outfall screening protocols using the guidance document.	
	screening		
2F.	Data collection	Develop data collection procedures prior to screening	
	procedures		
2G.	Screening	Visually inspect known outfalls from campus	
2H.	Public reporting of	Develop and continue to maintain a complaint reporting mechanism for	
	illicit discharges	the public to report illicit discharges.	
2I.	Educate staff about	Educate staff about the hazards associated with illicit discharges, how to	
	illicit discharges	identify illicit discharges, and how to report one.	
2J.	Combined Sewer	Communicate annually with City of Clarksville staff to determine if the	
	System	campus' MS4 permit boundary should be adjusted.	
	Communication		

3. Proposed BMPs for Construction Site Runoff Control		
BMP	Name	Description
3E.	Perform audits	Audit all construction sites in the MS4 permit boundary at least monthly to check for contractor compliance with the CGP.
3F.	Pre-construction meeting	Define all sites within the MS4 permit boundary that are covered under the TNCGP as priority construction sites, requiring a pre-construction meeting. Perform a preconstruction meeting on each site within the MS4 permit boundary requiring coverage under the TN CGP
3G.	Enforcement procedures	Develop enforcement procedures for CGP violations. These procedures must be reflected in the ERP.

3H.	Inventory	Develop and maintain an inventory of all projects within the University's
		MS4 boundaries that disturb an acre or more.
3I.	Training – plan	Have all staff reviewing plans attend TDEC's Level II - Design
	reviewers	Principles for Erosion Prevention and Sediment Control for Construction
		Sites
3J.	Training –	Have all staff performing EPSC audits attend TDEC's Level I -
	inspectors	Fundamentals of Erosion Prevention and Sediment Control for
		Construction Sites and become certified
3K.	Educate contractors	Educate contractors and designers on new contract requirements.
3L.	Public input	Develop a method for the public to provide comments and complaints
	_	regarding construction activity within the University's MS4

4. Proj	4. Proposed BMPs for Permanent Stormwater Management		
BMP	Name	Description	
4E.	Training – plan	Train staff reviewing plans on permanent stormwater management	
	review	design and application.	
4F.	Conduct inspections	Conduct inspections in the MS4 permit boundary to ensure measures are	
	during construction	being installed correctly	
4G.	Document	Develop or modify an inspection checklist for use during construction	
	inspections	inspections to ensure that measures are being installed as required and as designed	
4H.	As-built inspections	Include a requirement in construction contracts for as-built inspections to be completed by a professional engineer or landscape architect.	
4I.	Long-term inspections	Develop and implement a permanent stormwater management practices inspection program for measures after construction has been completed. All measures in the MS4 permit boundary will be inspected annually by the campus staff and once every five years by a professional engineer or landscape architect.	
4J.	BMP O&M plans	Develop BMP operation and maintenance plans for existing and new BMPs	
4K.	Maintain BMPs	Perform BMP maintenance as identified during inspections	
4L.	Train staff	Train staff performing inspections on permanent stormwater treatment controls	
4M.	Inventory	Develop an inventory and tracking system for permanent stormwater treatment BMPs located in the MS4 permit boundary.	
4N.	Water Quality Scorecard	Review and evaluate the university's policies and design standards related to building and site design with the goal of identifying impediments to the installation of green infrastructure, such as green roofs, porous pavement, water harvesting, etc. EPA's Water Quality	
40	Madification	Scorecard should be used and submitted with the annual report	
4O.	Modify design standards based	Where policies or design standards are identified as obstructing the installation of water quality BMPs on campus, those policies and/or	
	upon WQ scorecard review	design standards must be updated or rationale for why the standards cannot be included/revised will be provided.	

5. Prop	5. Proposed BMPs for Pollution Prevention and Housekeeping		
BMP	Name	Description	
5E.	Revise vehicle	Revise policies and procedures identified in activity 5D and develop	
	maintenance policies	written policies to be used in staff training.	
	and procedures		

5. Proj	posed BMPs for Pollu	ition Prevention and Housekeeping
5F.	Vehicle maintenance staff training	Include training on the revised policies and procedures for vehicle maintenance annually.
5G.	Service contract review	Review and modify existing service contracts (e.g., building custodial, food services, etc.).
5H.	Athletics practices evaluation	Evaluate Athletics practices to determine if additional controls or practices are needed to minimize the potential for negatively impacting stormwater quality
5I.	Revise Athletics policies and procedures	Revise Athletics policies and procedures identified in activity 5H above and develop written policies to be used in staff training.
5J.	Athletics staff training	Include training on the revised Athletics policies and procedures during annual training and as a part of Athletics' new employee training program.
5K.	Review and revise Athletic corporate sponsorship agreements	Review and/or revise any Athletics Department corporate sponsorship agreements to include requirements for stormwater pollution prevention/good housekeeping practices.
5L.	PPD stormwater training	Provide general stormwater training to the functional groups within the Physical Plant Department at least annually.
5M.	Athletics stormwater training	Provide general stormwater training to Athletics Department coaching staff (football, softball, baseball and soccer) at least once annually.
5N.	Pollution prevention policies on stormwater website	Include pollution prevention policies identified on the stormwater management website (http://www.apsu.edu/health-safety/stormwater-management).

Attachment B:

BMP Measurable Goals and Milestones

BMPS FOR ILLICIT DISCHARGE DETECTION AND ELIMINATION		
BMP 2E	Measurable Goals and Milestones	
Goal(s)	Train staff on outfall screening protocols using the guidance document	
	developed in activity 2C.	
Milestone Year 1	Not applicable	
Milestone Year 2	Staff trained within 18 months of permit coverage	
Milestone Year 3	Train staff as needed	
Milestone Year 4	Train staff as needed	
Milestone Year 5	Train staff as needed	

BMP 2F	Measurable Goals and Milestones
Goal(s)	Develop data collection procedures prior to screening
Milestone Year 1	Not applicable
Milestone Year 2	Procedures developed within 18 months of permit coverage.
Milestone Year 3	Implement procedures
Milestone Year 4	Implement procedures
Milestone Year 5	Implement procedures

BMP 2G	Measurable Goals and Milestones
Goal(s)	Visually inspect known outfalls from campus. At the time of the permit
	application, there were no known outfalls located within the MS4 permit
	boundary. Milestones are included below in the event that outfalls are added.
Milestone Year 1	Not applicable
Milestone Year 2	At least 25% of known outfalls visually inspected.
Milestone Year 3	At least 25% of known outfalls visually inspected.
Milestone Year 4	At least 25% of known outfalls visually inspected.
Milestone Year 5	All known outfalls visually inspected by the 5 th permit year

BMP 2H	Measurable Goals and Milestones
Goal(s)	Develop and continue to maintain a complaint reporting mechanism for the
	public to report illicit discharges
Milestone Year 1	Complaint reporting system in place.
	All complaints investigated.
Milestone Year 2	Ongoing implementation
Milestone Year 3	Ongoing implementation
Milestone Year 4	Ongoing implementation
Milestone Year 5	Ongoing implementation

BMP 2I	Measurable Goals and Milestones
Goal(s)	Educate staff about the hazards associated with illicit discharges, how to
	identify illicit discharges, and how to report one
Milestone Year 1	Not applicable
Milestone Year 2	All staff given information on how to identify and report illicit discharges.
	Complaints reported by staff
Milestone Year 3	Ongoing implementation
Milestone Year 4	Ongoing implementation

BMP 2I	Measurable Goals and Milestones
Milestone Year 5	Ongoing implementation

BMP 2J	Measurable Goals and Milestones
Goal(s)	Communicate annually with City of Clarksville staff to determine if the
	campus' MS4 permit boundary should be adjusted.
Milestone Year 1	- Meet with City staff prior to submitting the annual report
	- Modify MS4 permit boundary if new separated systems should be added
Milestone Year 2	- Meet with City staff prior to submitting the annual report
	- Modify MS4 permit boundary if new separated systems should be added
Milestone Year 3	- Meet with City staff prior to submitting the annual report
	- Modify MS4 permit boundary if new separated systems should be added
Milestone Year 4	- Meet with City staff prior to submitting the annual report
	- Modify MS4 permit boundary if new separated systems should be added
Milestone Year 5	- Meet with City staff prior to submitting the annual report
	- Modify MS4 permit boundary if new separated systems should be added

BMPS FOR CONSTRUCTION SITE RUNOFF	
BMP 3E	Measurable Goals and Milestones
Goal(s)	Audit all construction sites at least monthly.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Audit sites covered by the CGP at least monthly, beginning within 18 months of
	permit coverage
Milestone Year 4	Ongoing audits
Milestone Year 5	Ongoing audits

BMP 3F	Measurable Goals and Milestones
Goal(s)	Define all sites within the MS4 permit boundary that are covered under the TN
	CGP as priority construction sites, requiring a pre-construction meeting.
	Perform a preconstruction meeting on each site within the MS4 permit
	boundary requiring coverage under the TN CGP
Milestone Year 1	Not applicable
Milestone Year 2	Preconstruction conferences held for all priority construction sites
Milestone Year 3	Ongoing implementation
Milestone Year 4	Ongoing implementation
Milestone Year 5	Ongoing implementation

BMP 3G	Measurable Goals and Milestones
Goal(s)	Develop enforcement procedures for SWPPP violations. These procedures must be reflected in the ERP (see BMP 2B).
Milestone Year 1	Not applicable
Milestone Year 2	Enforcement procedures included in the ERP for SWPPP violations
Milestone Year 3	Ongoing implementation
Milestone Year 4	Ongoing implementation
Milestone Year 5	Ongoing implementation

BMP 3H	Measurable Goals and Milestones
Goal(s)	Develop and maintain an inventory of all projects within the University's MS4

	boundaries that disturb an acre or more
Milestone Year 1	Inventory developed and maintained
Milestone Year 2	Inventory maintained
Milestone Year 3	Inventory maintained
Milestone Year 4	Inventory maintained
Milestone Year 5	Inventory maintained

BMP 3I	Measurable Goals and Milestones
Goal(s)	Have all staff reviewing plans attend TDEC's Level II - Design Principles for
	Erosion Prevention and Sediment Control for Construction Sites and become
	certified.
Milestone Year 1	Not applicable
Milestone Year 2	Plan review staff trained
Milestone Year 3	New plan review staff trained, as appropriate
Milestone Year 4	New plan review staff trained, as appropriate
Milestone Year 5	New plan review staff trained, as appropriate

BMP 3J	Measurable Goals and Milestones
Goal(s)	Have all staff performing EPSC audits attend TDEC's Level I - Fundamentals of Erosion Prevention and Sediment Control for Construction Sites
Milestone Year 1	Not applicable
Milestone Year 2	Audits staff trained
Milestone Year 3	New audit staff trained, as appropriate
Milestone Year 4	New audit staff trained, as appropriate
Milestone Year 5	New audit staff trained, as appropriate

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BMP 3K	Measurable Goals and Milestones
Goal(s)	Educate contractors and designers on new contract requirements.
Milestone Year 1	Not applicable
Milestone Year 2	Construction contractors and designers educated
Milestone Year 3	Maintain requirements on stormwater management website
Milestone Year 4	Maintain requirements on stormwater management website
Milestone Year 5	Maintain requirements on stormwater management website

BMP 3L	Measurable Goals and Milestones
Goal(s)	Develop a method for the public to provide comments and complaints regarding
	construction activity within the University's MS4
Milestone Year 1	Not applicable
Milestone Year 2	Website developed with complaint reporting system included
Milestone Year 3	Website and complaint reporting system maintained
Milestone Year 4	Website and complaint reporting system maintained
Milestone Year 5	Website and complaint reporting system maintained

BMPS FOR PERMANENT STORMWATER MANAGEMENT	
BMP 4E	Measurable Goals and Milestones
Goal(s)	Train staff reviewing plans on permanent stormwater management design and application.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable

Milestone Year 3	Not applicable
Milestone Year 4	All plans review staff trained
Milestone Year 5	Plans review staff trained as needed

BMP 4F	Measurable Goals and Milestones
Goal(s)	Conduct inspections in the MS4 permit boundary to ensure measures are being
	installed correctly
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Inspect the installation of permanent stormwater treatment controls on sites
	disturbing 1 acre or more within the MS4 permit boundary
Milestone Year 5	Inspect the installation of permanent stormwater treatment controls on sites
	disturbing 1 acre or more

BMP 4G	Measurable Goals and Milestones
Goal(s)	Develop an inspection checklist for use during construction inspections to
	ensure that measures are being installed as required and as designed.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Inspection checklist modified or developed
Milestone Year 5	Document inspections with the checklist

BMP 4H	Measurable Goals and Milestones
Goal(s)	Include a requirement in construction contracts for as-built inspections to be
	completed by a design firm by a professional engineer or a landscape architect.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	- As-built certification requirement included in contracts
	- As-built certifications conducted on all permanent stormwater management
	controls
Milestone Year 5	- As-built certification requirement included in contracts
	- As-built certifications conducted on all permanent stormwater management
	controls

BMP 4I	Measurable Goals and Milestones
Goal(s)	Develop and implement a permanent stormwater management practices
	inspection program for measures after construction has been completed. All
	measures in the MS4 permit boundary will be inspected annually by staff and
	once every five years by a professional engineer or landscape architect.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	- measures in the MS4 permit boundary will be inspected annually by staff
	and once every five years by a professional engineer or landscape architect
	- Inspections documented
Milestone Year 5	- measures in the MS4 permit boundary will be inspected annually by staff

	and once every five years by a professional engineer or landscape architect
-	Inspections documented

BMP 4J	Measurable Goals and Milestones	
Goal(s)	Develop BMP operation and maintenance plans for BMPs.	
Milestone Year 1	Not applicable	
Milestone Year 2	Not applicable	
Milestone Year 3	Not applicable	
Milestone Year 4	O&M plans developed for standard BMPs	
Milestone Year 5	Implement O&M plans	

BMP 4K	Measurable Goals and Milestones
Goal(s)	Perform BMP maintenance as identified during inspections.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	- Maintenance conducted as needed.
	- Maintenance documented.
Milestone Year 5	- Maintenance conducted as needed.
	- Maintenance documented.

BMP 4L	Measurable Goals and Milestones
Goal(s)	Train staff performing inspections on permanent stormwater treatment controls.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Inspectors trained on inspections and maintenance needs
Milestone Year 5	Inspectors trained as needed

BMP 4M	Measurable Goals and Milestones
Goal(s)	Develop an inventory and tracking system for permanent stormwater treatment
	BMPs located in the MS4 permit boundary.
Milestone Year 1	- Tracking method developed.
	- Tracking method updated as new BMPs installed.
Milestone Year 2	Ongoing tracking.
Milestone Year 3	Ongoing tracking.
Milestone Year 4	Ongoing tracking.
Milestone Year 5	Ongoing tracking.

BMP 4N	Measurable Goals and Milestones
Goal(s)	Review and evaluate the university's policies and design standards related to
	building and site design with the goal of identifying impediments to the
	installation of green infrastructure, such as green roofs, porous pavement, water
	harvesting, etc. The findings of the review will be submitted with the annual
	report.
Milestone Year 1	Review completed and summary of findings included with the annual report
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable

Milestone Year 4	Not applicable
Milestone Year 5	Not applicable

BMP 4O	Measurable Goals and Milestones
Goal(s)	Where policies or design standards are identified as obstructing the installation
	of water quality BMPs on campus, those policies and/or design standards must
	be updated or where infeasible, justification must be provided.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Follow schedule for implementing any changes noted in the review for item 4N.
Milestone Year 5	Follow schedule for implementing any changes noted in the review for item 4N.

BMPS FOR MUNICIPAL POLLUTION PREVENTION AND GOOD HOUSEKEEPING	
BMP 5E	Measurable Goals and Milestones
Goal(s)	Revise policies and procedures identified in Activity 5D and develop written
	policies to be used in staff training.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	- Develop written policies for practices that need to be revised
	- Develop written policies for practices where none exists
Milestone Year 4	Ongoing implementation.
Milestone Year 5	Ongoing implementation.

BMP 5F	Measurable Goals and Milestones
Goal(s)	Include training on the revised policies and procedures for vehicle maintenance
	annually.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Staff trained annually
Milestone Year 4	Staff trained annually
Milestone Year 5	Staff trained annually

BMP 5G	Measurable Goals and Milestones
Goal(s)	Review and modify existing service contracts (e.g., building custodial, food
	services, etc.).
Milestone Year 1	Contract language reviewed and modified as necessary
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Not applicable
Milestone Year 5	Not applicable

BMP 5H	Measurable Goals and Milestones
Goal(s)	Evaluate Athletics practices to determine if additional controls or practices are
	needed to minimize the potential for negatively impacting stormwater quality.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Listing of practices evaluated

Not applicable
Measurable Goals and Milestones
Revise Athletics policies and procedures identified in activity H above and
develop written policies to be used in staff training.
Not applicable
Not applicable
Not applicable
Policies and procedures revised

Implement policies and procedures

BMP 5J	Measurable Goals and Milestones
Goal(s)	Include training on the revised Athletics policies and procedures during annual
	training and as a part of Athletics' new employee training program.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Not applicable
Milestone Year 4	Employees trained on policies
Milestone Year 5	Employees trained on policies

BMP 5K	Measurable Goals and Milestones
Goal(s)	Review and revise any Athletics Department corporate sponsorship agreements to include requirements for stormwater pollution prevention/good housekeeping practices.
Milestone Year 1	Not applicable
Milestone Year 2	Not applicable
Milestone Year 3	Revised corporate sponsorship agreements
Milestone Year 4	Ongoing implementation
Milestone Year 5	Ongoing implementation

BMP 5L	Measurable Goals and Milestones
Goal(s)	Provide general stormwater training to the functional groups within the Physical
	Plant Department at least annually.
Milestone Year 1	Employees trained on stormwater and pollution prevention annually
Milestone Year 2	Annual stormwater training
Milestone Year 3	Annual stormwater training
Milestone Year 4	Annual stormwater training
Milestone Year 5	Annual stormwater training

BMP 5M	Measurable Goals and Milestones
Goal(s)	Provide general stormwater training to Athletics Department coaching staff
	(football, softball, baseball and soccer) at least once annually.
Milestone Year 1	Employees trained on stormwater and pollution prevention annually
Milestone Year 2	Annual stormwater training
Milestone Year 3	Annual stormwater training
Milestone Year 4	Annual stormwater training
Milestone Year 5	Annual stormwater training

BMP 5N	Measurable Goals and Milestones
Goal(s)	Include pollution prevention policies identified in MCM 5 activities on the

Milestone Year 5

	stormwater management website (http://www.apsu.edu/health-safety/stormwater-management).
Milestone Year 1	As policies are developed, policies uploaded to website
Milestone Year 2	Update website
Milestone Year 3	Update website
Milestone Year 4	Update website
Milestone Year 5	Update website

SWMP OVERSIGHT AND REPORTING	
BMP 6A	Measurable Goals and Milestones
Goal(s)	Develop and maintain the written Stormwater Management Plan.
Milestone Year 1	SWMP document prepared and included in the written stormwater management
	plan
Milestone Year 2	SWMP document maintained.
Milestone Year 3	SWMP document maintained.
Milestone Year 4	SWMP document maintained.
Milestone Year 5	SWMP document maintained.

BMP 6B	Measurable Goals and Milestones
Goal(s)	Hold quarterly meetings of core group, or Stormwater Management Committee,
	to ensure activities are being conducted as scheduled.
Milestone Year 1	Quarterly meetings begin, with meeting minutes included in the written
	stormwater management plan
Milestone Year 2	Quarterly meetings begin, with meeting minutes included in the written
	stormwater management plan
Milestone Year 3	Quarterly meetings begin, with meeting minutes included in the written
	stormwater management plan
Milestone Year 4	Quarterly meetings begin, with meeting minutes included in the written
	stormwater management plan
Milestone Year 5	Quarterly meetings begin, with meeting minutes included in the written
	stormwater management plan

BMP 6C	Measurable Goals and Milestones
Goal(s)	Develop and submit the annual report.
Milestone Year 1	Develop and submit the annual report.
Milestone Year 2	Develop and submit the annual report.
Milestone Year 3	Develop and submit the annual report.
Milestone Year 4	Develop and submit the annual report.
Milestone Year 5	Develop and submit the annual report.

BMP 6D	Measurable Goals and Milestones
Goal(s)	Hold a public hearing on the annual report prior to submitting to TDEC.
Milestone Year 1	Hold a public hearing on the annual report prior to submitting to TDEC.
Milestone Year 2	Hold a public hearing on the annual report prior to submitting to TDEC.
Milestone Year 3	Hold a public hearing on the annual report prior to submitting to TDEC.
Milestone Year 4	Hold a public hearing on the annual report prior to submitting to TDEC.
Milestone Year 5	Hold a public hearing on the annual report prior to submitting to TDEC.